User Guide:
EDG1228UG001

Enfora ® EDG1228 Quad-Band SA-EL - User Manual

Revision 1.00

Enfora, Inc.
www.enfora.com

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may also be available to purchaser (e.g., the product may be returned to Enfora through the distributor or reseller).

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Revision History

Revision Number	Release Date	Description of Changes
1.00	03/30/06	Initial Release

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1 Introduction

1.1 About the SA-EL

The GSM/GPRS/EDGE SA-EL (hereafter referred to as the “SA-EL”) is a compact, stand-alone wireless IP (GSM/GPRS/EDGE) modem. The SA-EL is designed for computing devices operating Windows XP and 2000 Professional. Enfora’s SA-EL provides maximum versatility in a single affordable device.

1.2 About this Manual

Contained in this manual are instructions on how to install and configure the SA-EL modem. Please follow the instructions herein closely to avoid damaging the SA-EL.

The SA-EL modem contains an Enfora Enabler-IIE OEM module. Detailed information pertaining to the specifications and operation of the module will pertain, in part, to the SA-EL platform. Additional support documents relevant to the SA-EL can be found on the Enfora website at:

http://www.enfora.com/support.asp

1.3 System Requirements

The SA-EL requires the following equipment:

- Windows XP or 2000 operating systems.
- One standard USB port for SA-EL configuration
- One USB cable to connect the SA-EL to your computer.
- One standard 2.5 mm cell phone headset for speaker and microphone*

*not required for stand alone operation

1.4 Included in the Package

The following parts are included in the SA-EL package:

- Enfora SA-EL modem.
- Software/Documentation CD.

1.5 Optional Accessories

- Antenna
- 3 foot USB cable

1.6 SA-EL Front and Back View

Figure 1 - Front view of SA-EL modem.

Figure 2 - Rear view of SA-EL modem.

1.7 Regulatory Compliance FCC

1.7.1 FCC

The modem was tested and certified to meet FCC Parts 15 in a stand-alone configuration, which demonstrated that the GSM1208 SA-G complies with Part 15 emission limits. FCC Part 22 & Part 24 is covered by the Enfora Enabler-IIG "modular approval" process for a transmitter. This approach, described by FCC Public Notice DA 00-131407 released June 26, 2000, is intended to afford relief to equipment manufacturers by eliminating the requirement for obtaining a new equipment authorization for the same transmitter when installed in a new device.

In order to use the GSM1208 SA-G without additional FCC certification approvals, the installation must meet the following conditions:

For the transmitter to meet the MPE categorical exclusion requirements of 2.1091, the ERP must be less than 1.5 watts for personnel separation distance of at least 20 cm (7.9 in). Therefore, the maximum antenna gain cannot exceed +3.3dBi. If greater than 1.5 watts exists, then additional testing and FCC approval is required.

1.7.2 R&TTE - CE

The GSM1208 SA-G modem has been fully tested and complies with all the requirements of EN301 489-1, EN301 489-7 and EN60950-1:2001. Compliance to EN301 511 has been demonstrated by testing on both the GSM1208 and the integrated GSM0108 module.

1.7.3 Disclaimer

The information and instructions contained within this publication comply with all FCC, GCF, PTCRB, R&TTE, IMEI and other applicable codes that are in effect at the time of publication. Enfora disclaims all responsibility for any act or omissions, or for breach of law, code or regulation, including local or state codes, performed by a third party.

Enfora strongly recommends that all installations, hookups, transmissions, etc., be performed by persons who are experienced in the fields of radio frequency technologies. Enfora acknowledges that the installation, setup and transmission guidelines contained within this publication are guidelines, and that each installation may have variables outside of the guidelines contained herein. Said variables must be taken into consideration when installing or using the product, and Enfora shall not be responsible for installations or transmissions that fall outside of the parameters set forth in this publication.

Enfora shall not be liable for consequential or incidental damages, injury to any person or property, anticipated or lost profits, loss of time, or other losses incurred by Customer or any third party in connection with the installation of the Products or Customer's failure to comply with the information and instructions contained herein.

2 Installation

2.1 Subscriber Identity Module (SIM) Card

The SIM, an integral part of any GSM terminal device, is a “smart card” that is programmed with subscriber information. The user information consists of an International Mobile Subscriber Identity (IMSI) number, which is registered with the GSM service provider, and an encryption Ki (pronounced “key”). This information consists of a microprocessor and memory installed on a plastic card. To install the SIM card into the modem, insert the SIM card in the modem as shown below in Figure 3.

> **Note:** The SIM is *not* provided with the SA-EL modem. The SIM must be obtained from the GSM service provider and must be provisioned by the operator for data and/or voice. Always take care to protect the SIM: the GSM terminal will not operate without the SIM installed.

Figure 3 - Inserting a SIM Card in a SA-EL Module

> **Note:** The SIM lock must be engaged (locked) in order for the SA-EL to operate properly.

2.2 Connecting the Power Supply

The SA-EL modem obtains power via the USB cable that connects the modem to your computer.

To supply power to the SA-EL modem, connect the B connector of your USB cable to the connector (labeled "USB") on the modem. Connect the A connector of the USB cable to an USB port on your computer. The user supplies the USB cable.

Note: Make sure the SIM card is inserted prior to connecting the USB cable to the SA-EL and your computer.

Also, please make sure that the **USB drivers are installed before connecting the SA-EL to your computer**. Please see page nine (9) for instruction.

Figure 4 - Connecting The Power Supply To SA-EL

2.3 Connecting the Antenna

The user is responsible for supplying the GSM antenna for the SA-EL modem. The antenna must have a nominal impedance of 50 Ohms. The VSWR must be less than 2.0:1. System antenna gain should be 0-2 dB for optimum performance. See section 1.7 Regulatory Compliance FCC.

The SA-EL operates at the 850/900/1800 and 1900 MHz frequency bands. Care needs to be taken when connecting the antenna since the right type of antenna will be required for proper operation of the modem. The antenna connector on the SA-EL modem is SMA Female. The antenna has to be connected to the connector labeled “Antenna” as shown below in Figure 5.

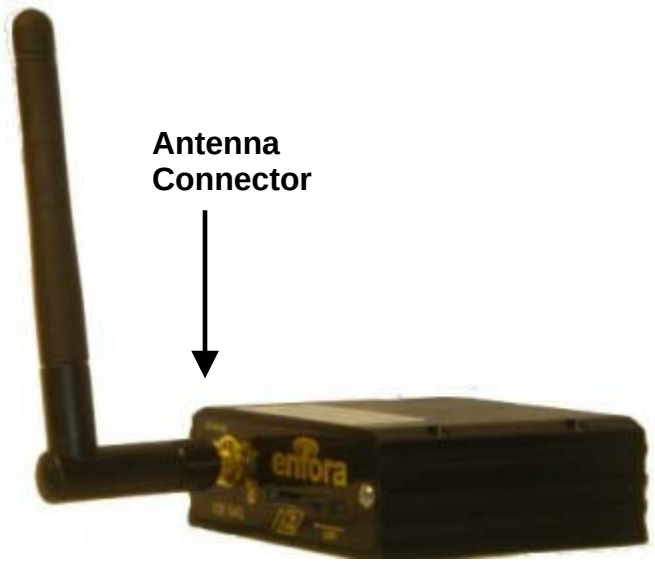


Figure 5 - SA-EL Connecting the Antenna

2.4 Attaching a Microphone/Speaker

To place a voice call from the SA-EL, connect a microphone/speaker to the port as shown below in Figure 6. The plug is a standard 2.5mm audio connector. The user must supply the microphone or speaker.

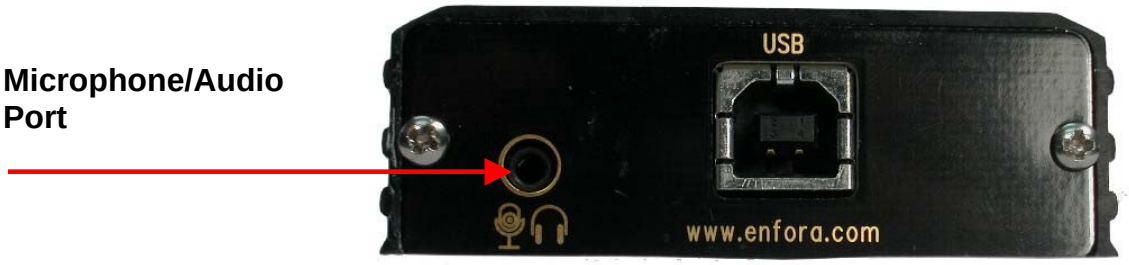


Figure 6 - Microphone/Audio Port on the SA-EL Module

2.5 LED Functions

The SA-EL modem has one LED on the front panel.

REG: Indicates GSM network registration status. This LED will flash when attempting to register on a GSM network. The LED will be solid when the modem is registered with a GSM network.

2.6 Mounting the SA-EL

The SA-EL includes two mounting options. The modem housing contains four thru holes that can utilize number 2 screws for securing the device. The other option available is the inclusion of four threaded holes for securing screws to be used to secure the device.

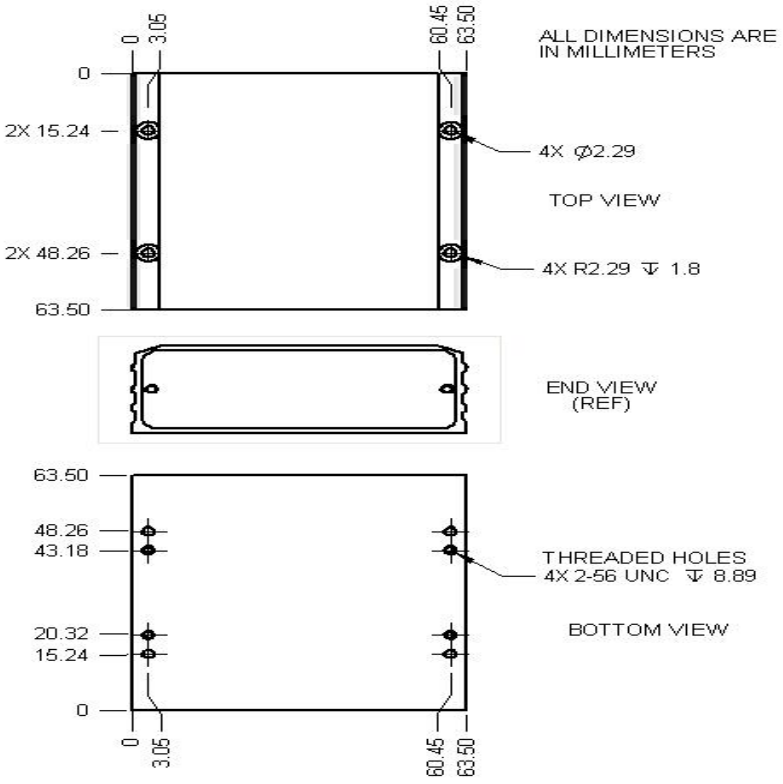


Figure 7 - Mounting Dimensions

3 mobile PhoneTools Software

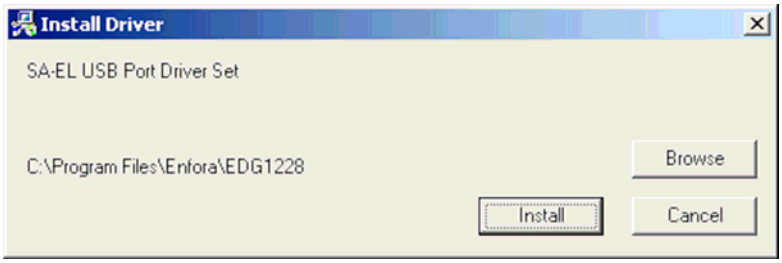
The first step in installing mobile PhoneTools software is installing the SA-EL USB drivers.

Follow these steps to install the USB drivers.

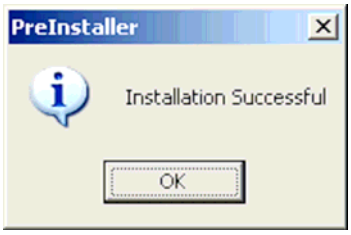
1. Click on **Step 1 – USB Driver Install** to install the SA-EL USB driver.

DO NOT connect the SA-EL to the computer at this time.

2. Select **Install** from the application.



3. The drivers will be installed. You will then be prompted with the **Installation Successful** window.



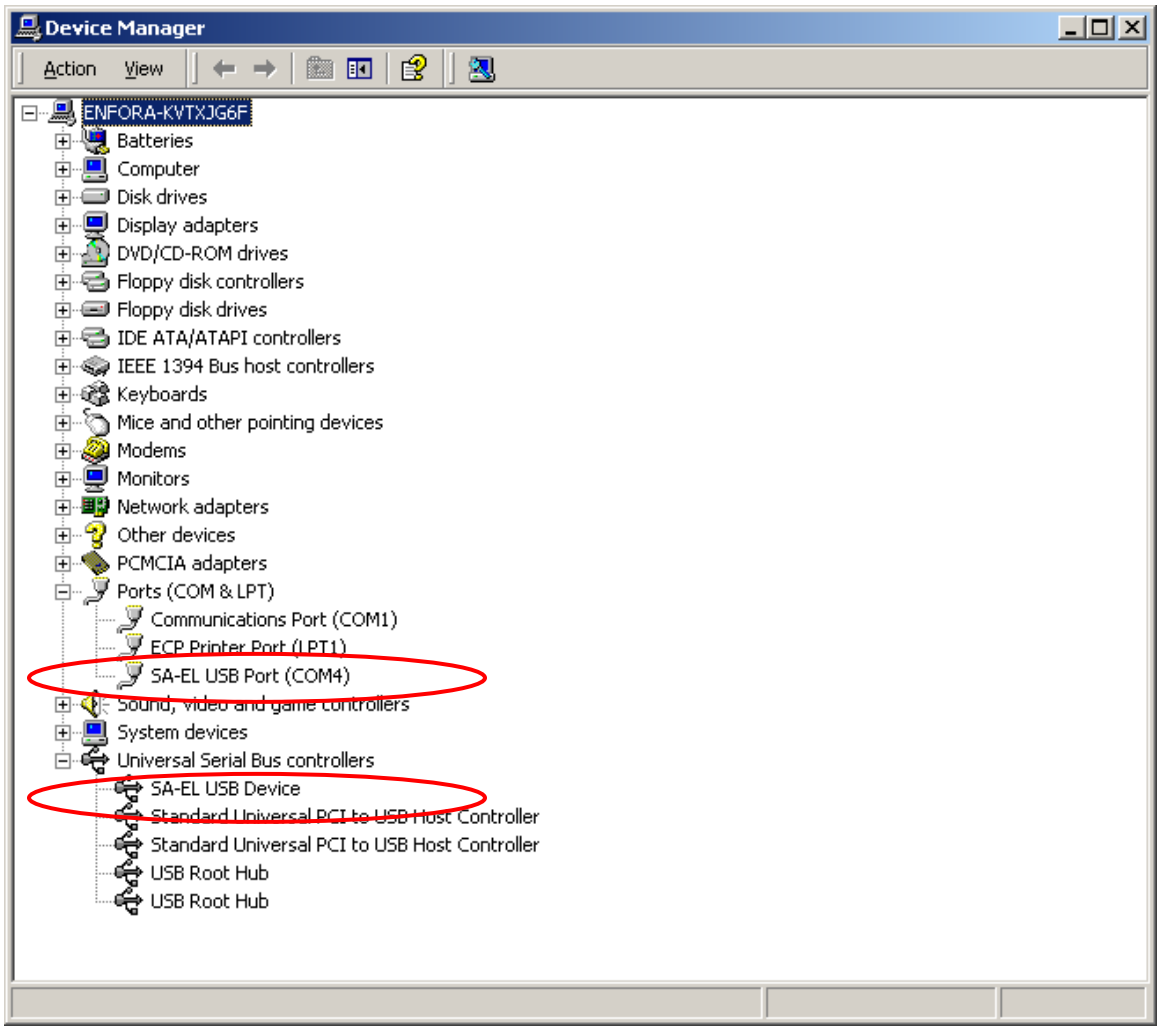
4. Select **OK** to exit the install.
5. Now plug in your SA-EL to the computer USB port.

Depending upon the Operating System you are using (Windows XP or Windows 2000) you will see different screens during the installation process. .

3.1 Windows 2000 Installation Instructions

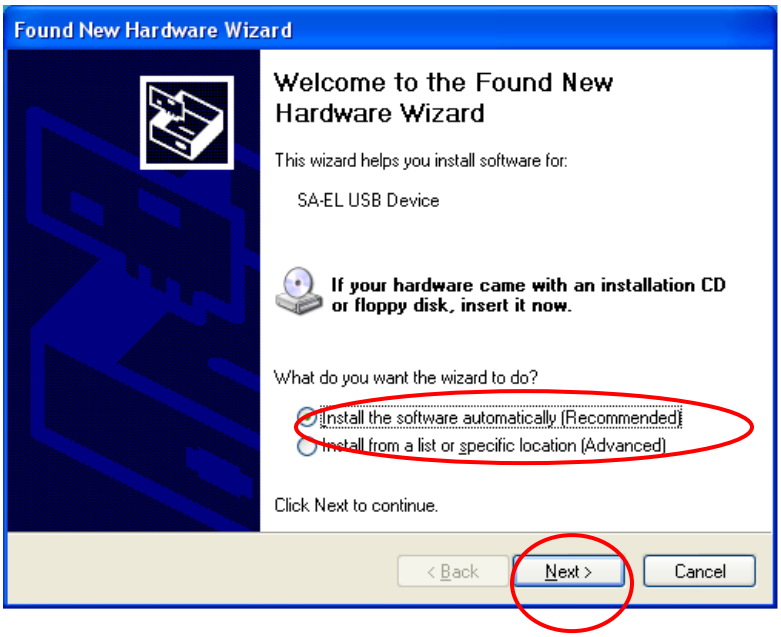
Windows 2000 will display the following screen, indicating that the Operating System has found new hardware.

Note: Once the SA-EL is installed, you can open **Device Manager** to make sure that the installation was successful, and that the modem is ready for use.

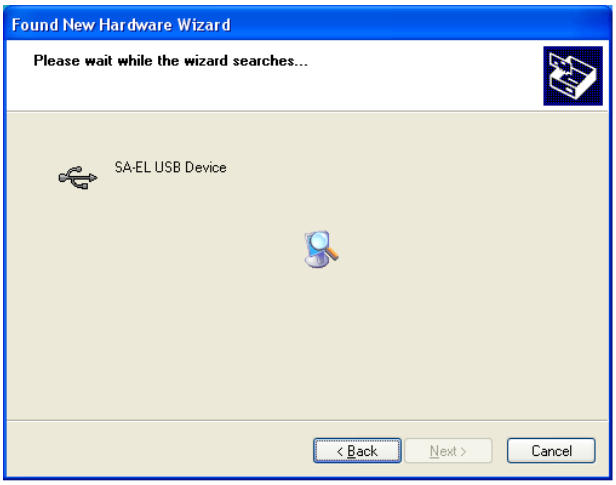


Device Manager

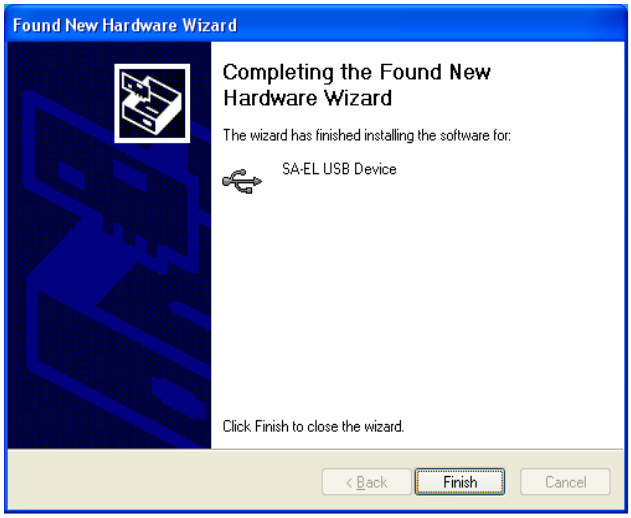
3.2 Windows XP Installation Screens


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
SA-EL USB Device
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

1. Select **Install the software automatically**.
2. Click **Next.**
3. Windows XP will search for the drivers.

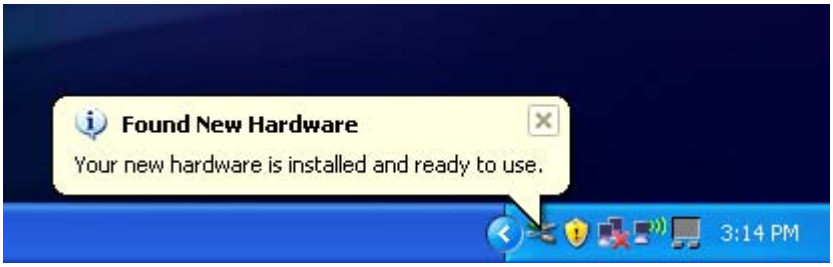


4. Windows will finish installing the drivers. Select **Finish**.



5. Windows XP might prompt you to install the drivers again. The **Hardware Install Wizard** may appear again and a pop-up window from the system tray will indicate that Windows has found new hardware. If so, follow Steps 6 through 9 again.

6. When WindowsXP has successfully installed the SA-EL USB drivers a pop-up window from your system tray will state that your hardware is installed and ready to use.



Note: Refer to Page 12 to see how you can refer to **Device Manager,** and make sure that the modem was installed properly.

3.3 mobile PhoneTools – Using the Enfora SA-EL Modem

The following instructions will explain how to install and configure the Enfora SA-EL Modem for use in a computer. All of the instructions and references to a "menu" are specific to the mobile PhoneTools software (not your Operating System).

3.4 Installing mobile PhoneTools

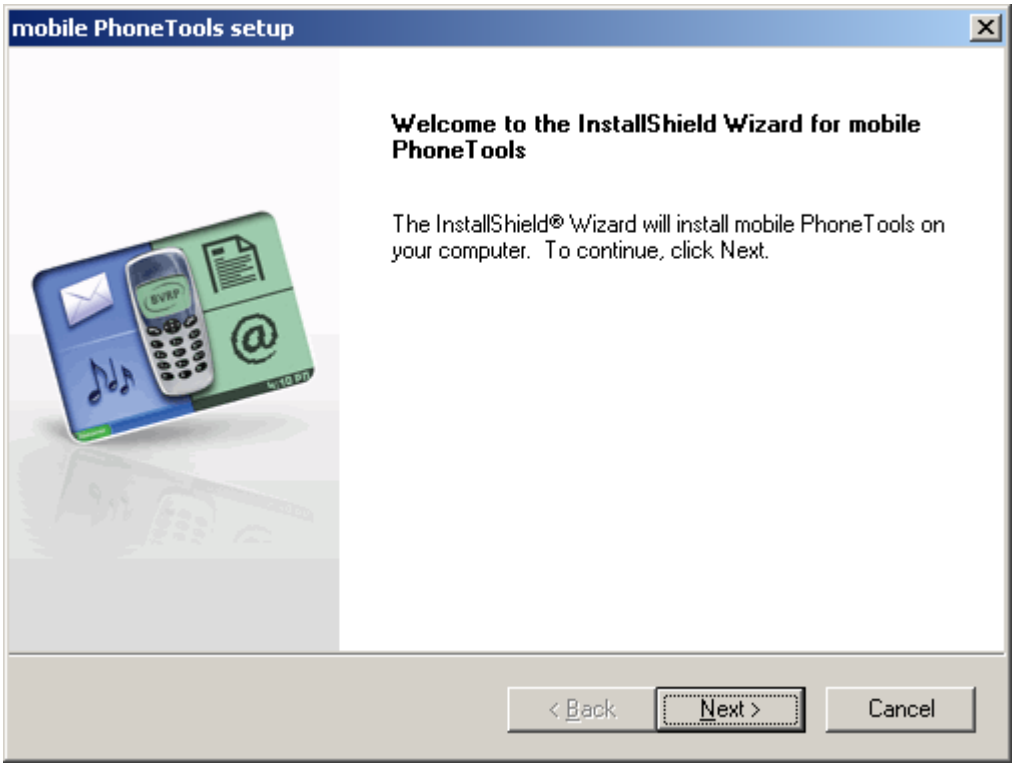
In order to use the Enfora SA-EL Modem to make a GPRS connection, you will use mobile PhoneTools, which is provided on the CD that came with your Enfora SA-EL Modem.

> **Note:** Install the SA-EL USB drivers and connect the Enfora SA-EL modem to your computer's USB port.

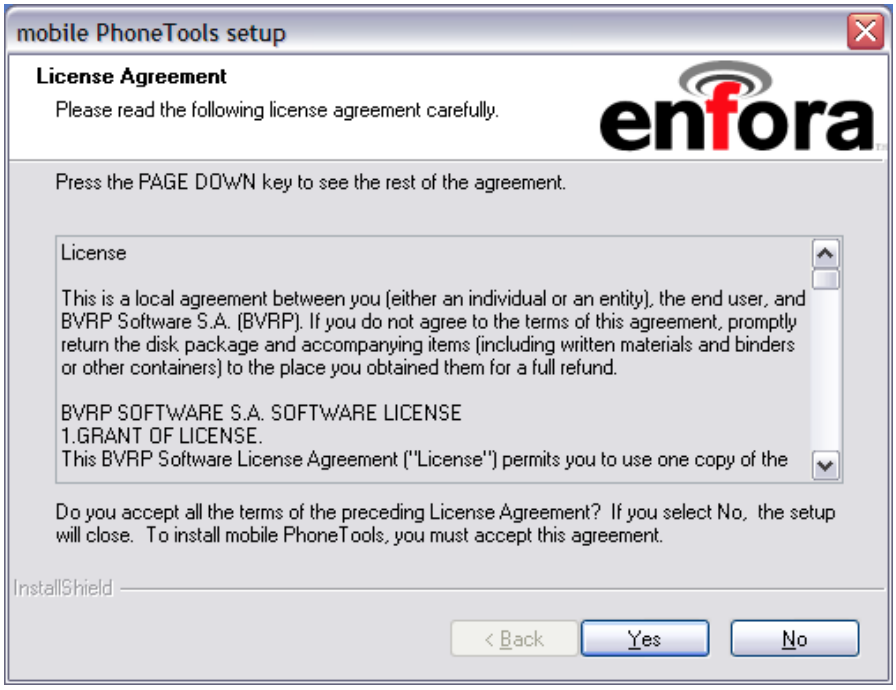
The following instructions explain how to install BVRP mobile PhoneTools on your computer.

1. Place the Enfora CD into the CD drive of your computer.
2. Click on **mobile PhoneTools Software Installation**.
3. Click on the **Language Version** of mobile PhoneTools that you need.

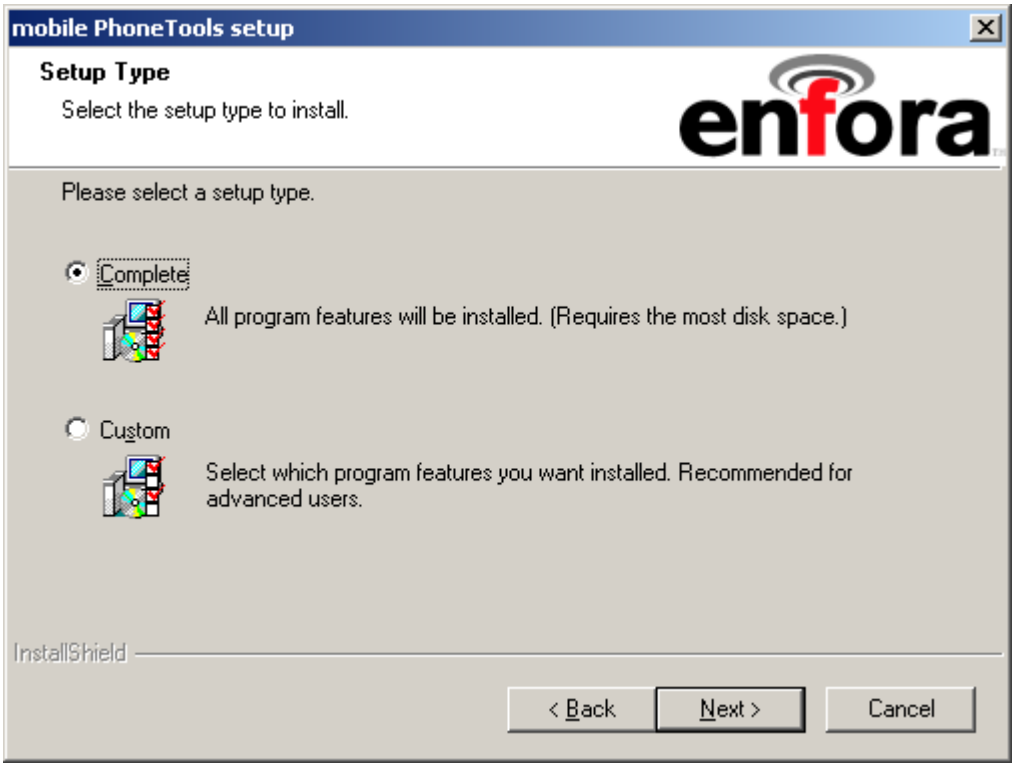
4. You will see the following **InstallShield Wizard** screen:


mobile PhoneTools setup
Welcome to the InstallShield Wizard for mobile PhoneTools
The InstallShield® Wizard will install mobile PhoneTools on your computer. To continue, click Next.
< Back
Next >
Cancel

5. Click on **Next** to continue.
6. You will see the following License Agreement screen:

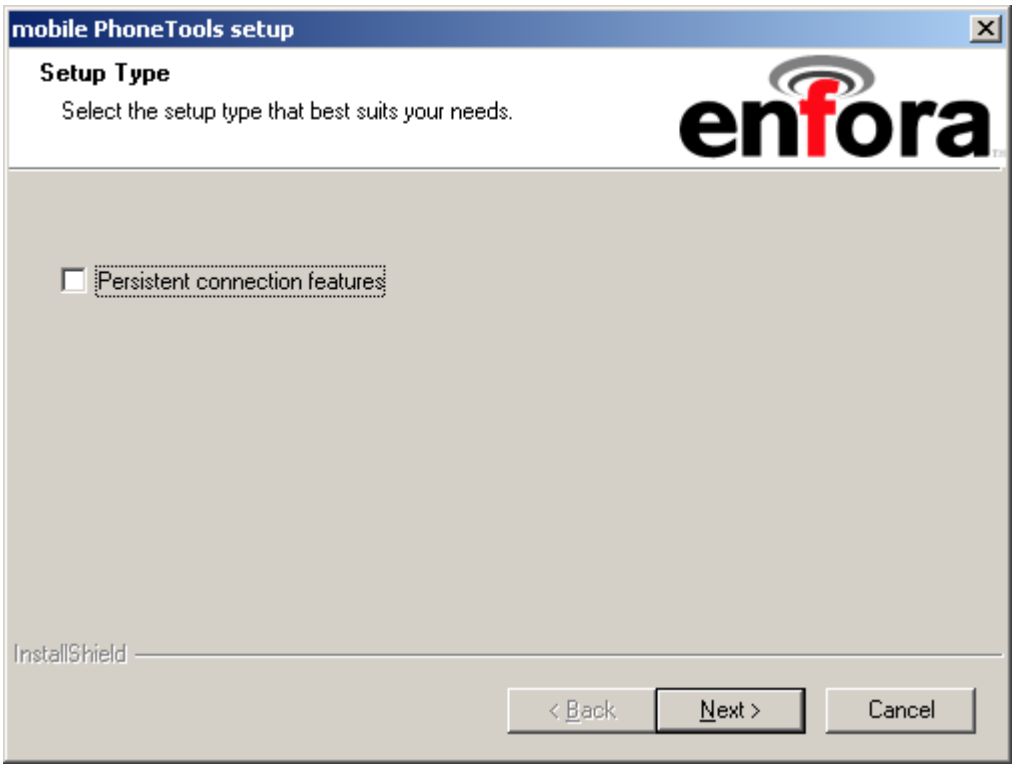

mobile PhoneTools setup
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
License
This is a local agreement between you (either an individual or an entity), the end user, and BVRP Software S.A. (BVRP). If you do not agree to the terms of this agreement, promptly return the disk package and accompanying items (including written materials and binders or other containers) to the place you obtained them for a full refund.
BVRP SOFTWARE S.A. SOFTWARE LICENSE
1.GRANT OF LICENSE.
This BVRP Software License Agreement ("License") permits you to use one copy of the
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install mobile PhoneTools, you must accept this agreement.
InstallShield
< Back
Yes
No

7. Click on **Yes** to continue. You will see the following screen:


mobile PhoneTools setup
Setup Type
Select the setup type to install.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Select which program features you want installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

8. Click on the radio button marked **Complete**.
9. Click on **Next** to continue. You will see the following **Setup Status** screen:

10. Once the installation is complete, you will see the following screen which prompts you to configure a **Persistent Connection**.



11. The **Persistent Connection Features** are:

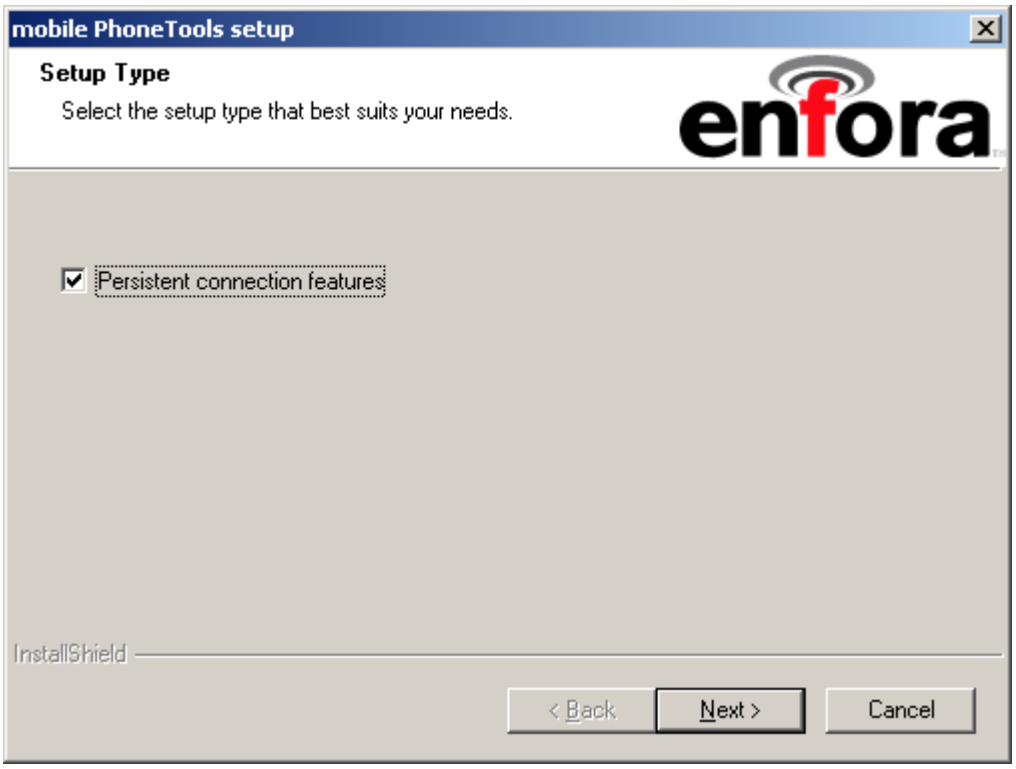
    Start mobile PhoneTools on boot, and

    Automatic Internet Connection (connection automatically reconnects if dropped).

During this step of the setup process you can choose whether or not you would like to install **Persistent Connection Features**.

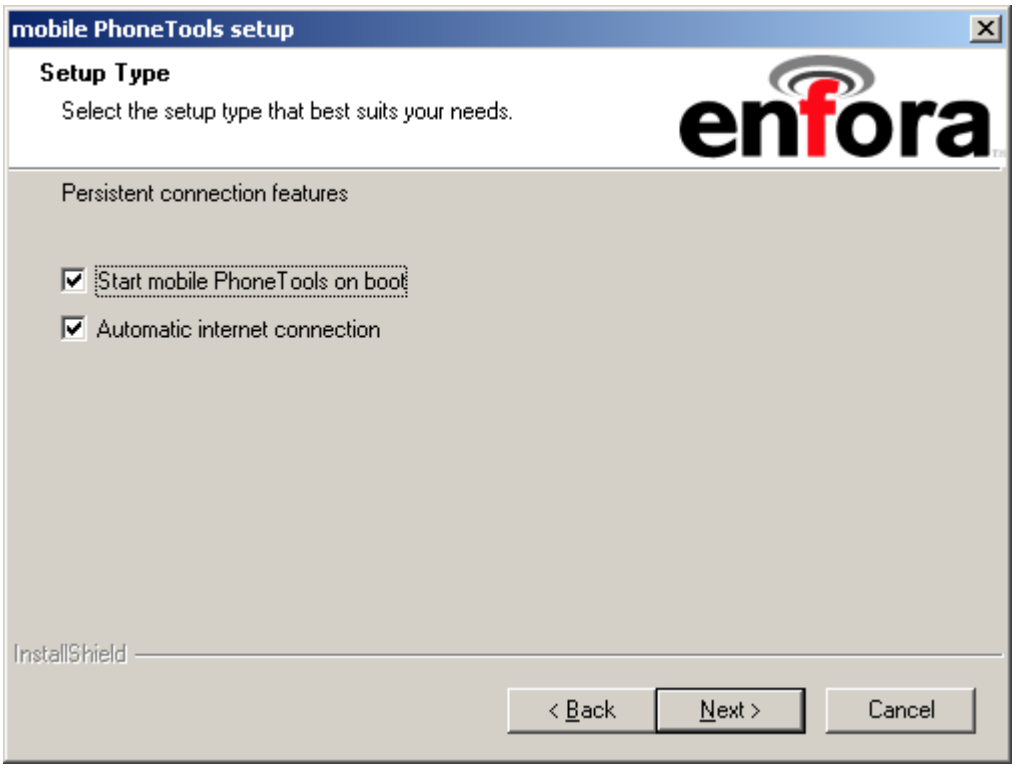
If you do not choose to install **Persistent Connection Features**, proceed to Step 16.

Note: Do not check the above checkmark box if you do not want to install Persistent Connection Features. If you choose *not* to install Persistent Connection Features during Setup, you will have to run the Setup program again in order to install them at a later time.



12. If you choose to install **Persistent Connection Features** click on the check mark box.

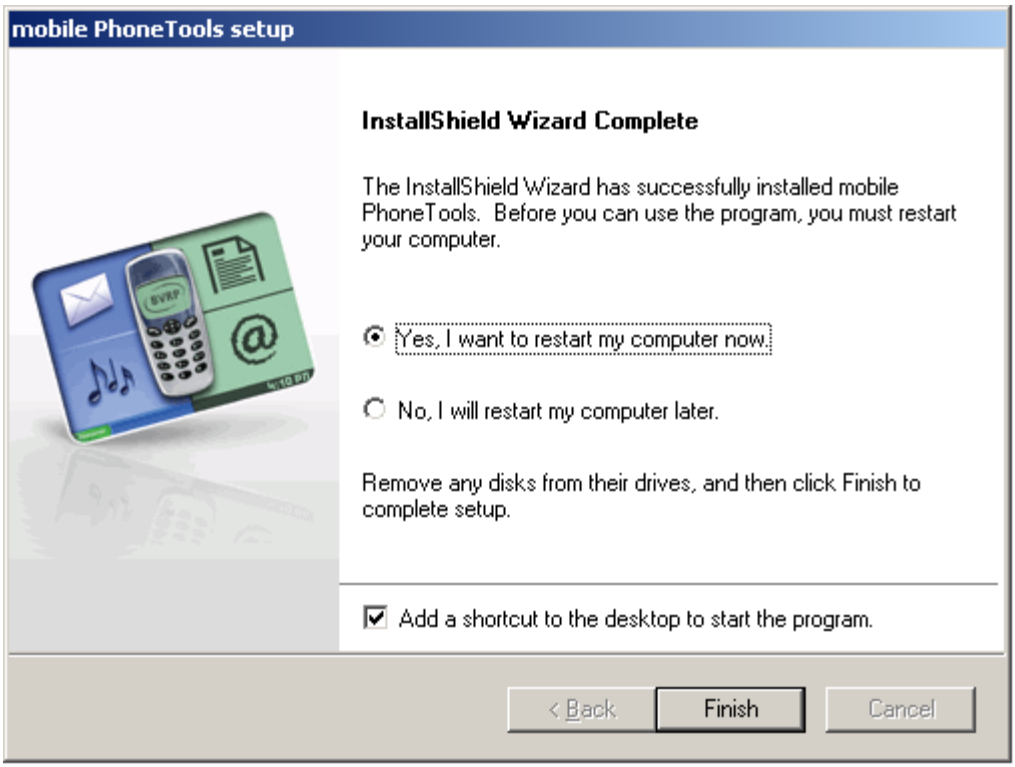
13. Click **Next** to continue. You will see the following screen:



To disable or enable the above features after installation, click on the menu from within mobile PhoneTools, then click on **Settings**, then the **Miscellaneous Tab**.

14. Select the **Persistent Connection Feature(s)** you would like to enable.
15. Click **Next** to continue. You will see the following screen:

Note: For detailed information on Persistent Connection Features, please refer to Section 4 on Page 23.

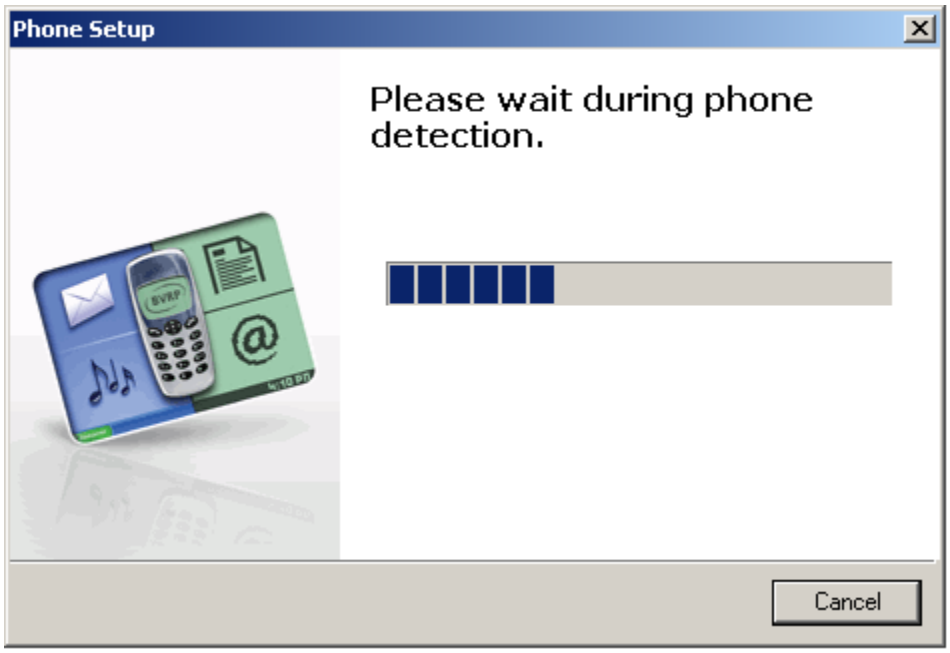

mobile PhoneTools setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed mobile PhoneTools. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
Add a shortcut to the desktop to start the program.
< Back
Finish
Cancel

16. Click **Finish,** and allow your computer to restart.

Once the mobile PhoneTools software is successfully installed on your computer, you will see this icon on your desktop:

Note: For detailed information on Persistent Connection Features, please refer to Section 4 on Page 23.

17. Next, you will see the **Phone Detection** screen.



Please wait while your SA-EL modem is being configured by the software.

You are now ready to begin using your Enfora SA-EL modem.

4 Understanding Persistent Connection Features

During the installation of mobile PhoneTools, you will have the option of installing the following two Persistent Connection Features:

4.1 Start mobile PhoneTools on boot

This feature will automatically start the mobile PhoneTools program every time you start your computer.

If you do not choose this Persistent Connection Feature, you will need to double-click the following mobile PhoneTools icon in order to launch mobile PhoneTools:

4.2 Automatic Internet Connection

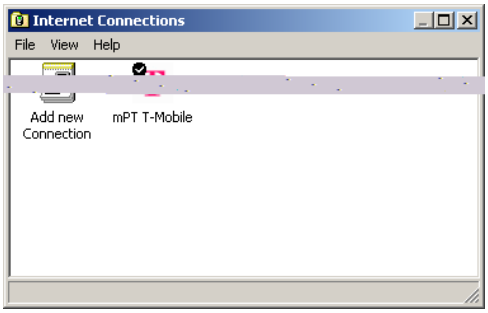
This feature will automatically reconnect the Internet connection if the Dial-Up Networking (DUN) connection is dropped.

4.3 mobile PhoneTools Internet Connection Wizard:

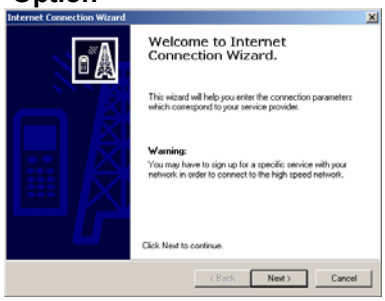
There are two ways to create an Internet connection:

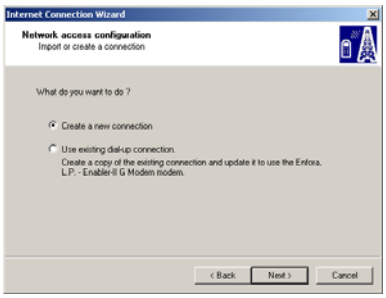
1. Select the Globe Icon within mobile PhoneTools. The **Internet Connection Wizard** will automatically start if there are no existing Internet connections defined.

2. Use the **Menu > Setup > Internet connections** option. Then, activate **Add new Connection.**

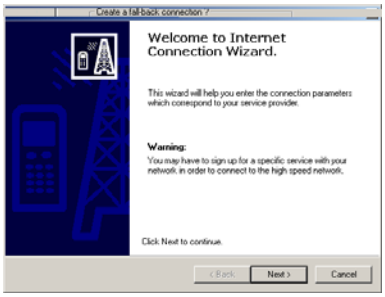


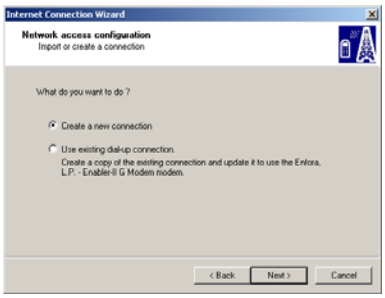
Internet Connection Wizard Using the Globe Start Option


Internet Connection Wizard
Welcome to Internet Connection Wizard.
This wizard will help you enter the connection parameters which correspond to your service provider.
Warning:
You may have to sign up for a specific service with your network in order to connect to the high speed network.
Click Next to continue.
< Back
Next >
Cancel

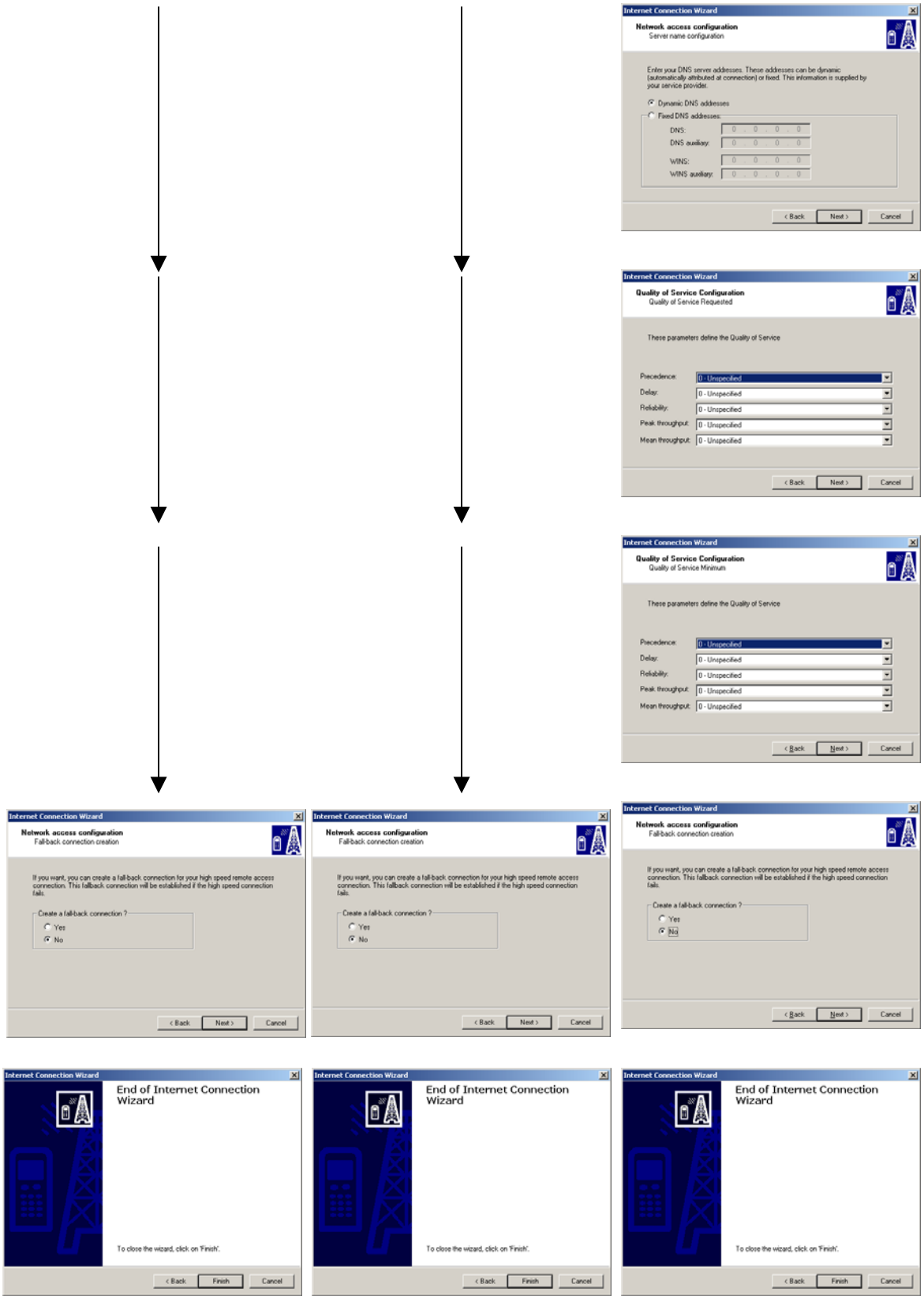

Internet Connection Wizard
Network access configuration
Import or create a connection
What do you want to do ?
Create a new connection
Use existing dial-up connection
Create a copy of the existing connection and update it to use the Enfora, L.P. - Enabler-II G Modem modem.
< Back
Next >
Cancel

Internet Connection Wizard Using the Add New Connection


Create a fall-back connection ?
Welcome to Internet Connection Wizard.
This wizard will help you enter the connection parameters which correspond to your service provider.
Warning:
You may have to sign up for a specific service with your network in order to connect to the high speed network.
Click Next to continue.
< Back
Next >
Cancel

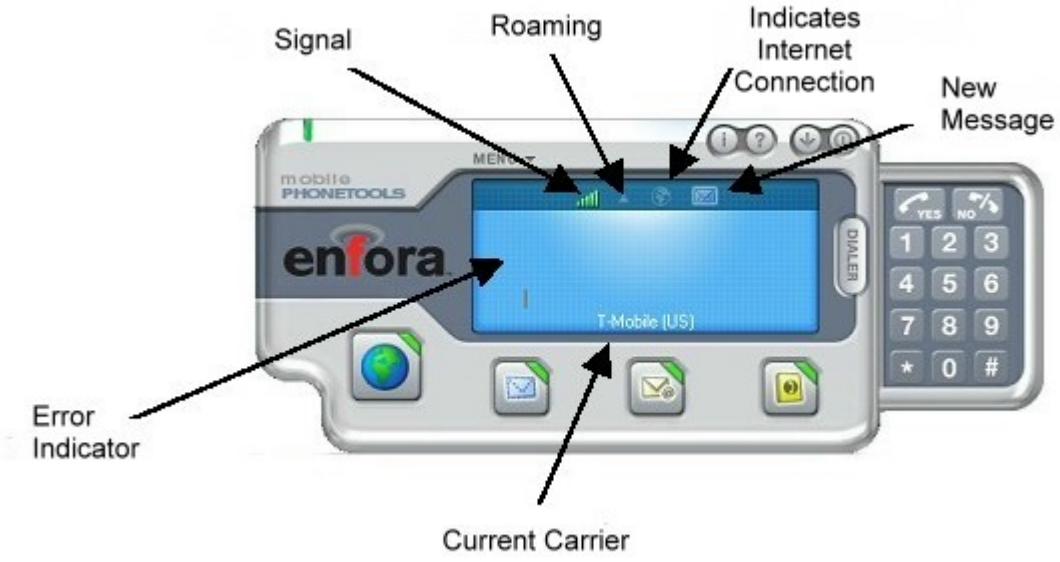

Internet Connection Wizard
Network access configuration
Import or create a connection
What do you want to do ?
Create a new connection
Use existing dial-up connection
Create a copy of the existing connection and update it to use the Enfora, L.P. - Enabler-II G Modem modem.
< Back
Next >
Cancel

Internet Connection Wizard
Network access configuration
Connection ID
Enter the name you wish to give this connection.
Connection name:
Internet connection #2
Choose your Service provider
If your Service provider is not listed, choose <Other> to manually set the connection parameters.
Country or region:
United States of America
Service Provider:
T-Mobile US
< Back
Next >
Cancel
Use Default Network Settings
Customize Network Settings
Network access configuration
Connection type configuration
Select the connection type you want to set up.
GPRS
GSM Data
Connect to your own ISP (AOL,MSN...)
Use default parameters
Network access configuration
Open session information
To establish a connection, you should identify yourself with a user name and a password. This information is supplied by your service provider.
User name:
Password:
If necessary, enter your access point name (APN). This information is supplied by your service provider.
APN:
internet3.voicestream.com
Network access configuration
IP address configuration
Enter your IP address. This address can be dynamic (automatically attributed at connection) or fixed. This information is supplied by your service provider.
Dynamic IP address
Fixed IP address:
0 . 0 . 0 . 0


Internet Connection Wizard
Network access configuration
Server name configuration
Enter your DNS server addresses. These addresses can be dynamic (automatically attributed at connection) or fixed. This information is supplied by your service provider.
Dynamic DNS addresses
Fixed DNS addresses:
DNS:
DNS auxiliary:
WINS:
WINS auxiliary:
< Back
Next >
Cancel
Internet Connection Wizard
Quality of Service Configuration
Quality of Service Requested
These parameters define the Quality of Service
Precedence:
Delay:
Reliability:
Peak throughput:
Mean throughput:
0 - Unspecified
< Back
Next >
Cancel
Internet Connection Wizard
Quality of Service Configuration
Quality of Service Minimum
These parameters define the Quality of Service
Precedence:
Delay:
Reliability:
Peak throughput:
Mean throughput:
0 - Unspecified
< Back
Next >
Cancel
Internet Connection Wizard
Network access configuration
Fall-back connection creation
If you want, you can create a fall-back connection for your high speed remote access connection. This fallback connection will be established if the high speed connection fails.
Create a fall-back connection ?
Yes
No
< Back
Next >
Cancel
Internet Connection Wizard
Network access configuration
Fall-back connection creation
If you want, you can create a fall-back connection for your high speed remote access connection. This fallback connection will be established if the high speed connection fails.
Create a fall-back connection ?
Yes
No
< Back
Next >
Cancel
Internet Connection Wizard
Network access configuration
Fall-back connection creation
If you want, you can create a fall-back connection for your high speed remote access connection. This fallback connection will be established if the high speed connection fails.
Create a fall-back connection ?
Yes
No
< Back
Next >
Cancel
Internet Connection Wizard
End of Internet Connection Wizard
To close the wizard, click on 'Finish'.
< Back
Finish
Cancel
Internet Connection Wizard
End of Internet Connection Wizard
To close the wizard, click on 'Finish'.
< Back
Finish
Cancel
Internet Connection Wizard
End of Internet Connection Wizard
To close the wizard, click on 'Finish'.
< Back
Finish
Cancel

4.4 mobile PhoneTools Button Definitions

4.5 mobile PhoneTools Display Definitions



4.6 Troubleshooting

If you have any questions regarding installation, set up, or operation of the SA-EL, please contact the vendor or distributor from whom you purchased the modem, or your wireless network carrier.

http://www.enfora.com